

Title (en)  
Aza-Spirocompounds for the treatment of pain

Title (de)  
AZA-SPIROVERBINDUNGEN ZUR BEHANDLUNG VON SCHMERZEN

Title (fr)  
Composés azaspiro pour le traitement de la douleur

Publication  
**EP 1520854 A3 20070221 (DE)**

Application  
**EP 04029311 A 20030227**

Priority  
• DE 10210190 A 20020307  
• EP 03743342 A 20030227

Abstract (en)  
[origin: WO03074486A1] The invention relates to azospiro compounds and their use as drugs, especially for treating chronic, chronic-inflammatory and/or neuropathic pain. An especially suitable compound for producing analgetics is 2-azaspiro[4.6]undecane-3-thione.

IPC 8 full level  
**A61K 31/403** (2006.01); **C07D 209/54** (2006.01); **A61K 31/40** (2006.01); **A61P 25/04** (2006.01); **C07D 209/96** (2006.01)

CPC (source: EP KR US)  
**A61P 25/04** (2017.12 - EP); **A61P 29/00** (2017.12 - EP); **C07D 209/54** (2013.01 - EP KR US); **C07D 491/10** (2013.01 - KR);  
**C07D 497/10** (2013.01 - KR)

Citation (search report)  
• [X] GB 967718 A 19640826 - GESCHICKTER FUND MED RES  
• [A] WO 9961424 A1 19991202 - WARNER LAMBERT CO [US], et al & ANNALES PHARMACEUTIQUES FRANCAISES (2000), 58(5), 291-302, 2000  
• [X] BADGER A M ET AL: "ANTIARTHRITIC AND SUPPRESSOR CELL INDUCING ACTIVITY OF AZASPIRANES:STRUCTURE-FUNCTION RELATIONSHIPS OF A NOVEL CLASS OF IMMUNOMODULATORY AGENTS", JOURNAL OF MEDICINAL CHEMISTRY, AMERICAN CHEMICAL SOCIETY, WASHINGTON, US, vol. 33, no. 11, 1 November 1990 (1990-11-01), pages 2963 - 2970, XP000605424, ISSN: 0022-2623  
• [X] LUHND AHL K ET AL: "SYNTHESIS AND ANTIVIRAL ACTIVITIES OF ADAMANTANE SPIRO COMPOUNDS. 1. ADAMANTANE AND ANALOGOUS SPIRO-3'-PYRROLIDINES", JOURNAL OF MEDICINAL CHEMISTRY, AMERICAN CHEMICAL SOCIETY, WASHINGTON, US, vol. 15, no. 2, 1 May 1971 (1971-05-01), pages 129 - 131, XP002248546  
• [X] GROGAN C H ET AL: "SPIRANES.IV.ALKYL,CYCLOALKYL,ALKENYL,ARYL,ARYLALKYL,AND HYDRAZONO AZASPIRANE DERIVATIVES", JOURNAL OF MEDICINAL CHEMISTRY, AMERICAN CHEMICAL SOCIETY, WASHINGTON, US, vol. 7, 2 August 1963 (1963-08-02), pages 78 - 87, XP002248547  
• [X] DATABASE CA [online] CHEMICAL ABSTRACTS SERVICE, COLUMBUS, OHIO, US; 2000, PANOUSE, J. J. ET AL: "Immunomodulator structure-activity relationships: contribution of molecular modeling", XP002248548, retrieved from STN Database accession no. 134:110100

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT SE SI SK TR

Designated extension state (EPC)  
AL LT LV MK RO

DOCDB simple family (publication)  
**WO 03074486 A1 20030912**; AT E298745 T1 20050715; AU 2003215603 A1 20030916; AU 2003215603 A2 20030916; BR 0307922 A 20041221; CA 2477124 A1 20030912; CN 1324011 C 20070704; CN 1639122 A 20050713; DE 10210190 A1 20030925; DE 50300710 D1 20050804; EP 1485352 A1 20041215; EP 1485352 B1 20050629; EP 1520854 A2 20050406; EP 1520854 A3 20070221; ES 2242944 T3 20051116; HK 1080468 A1 20060428; JP 2005526745 A 20050908; KR 20040091638 A 20041028; MX PA04008669 A 20041206; NO 20044239 L 20041201; PL 372431 A1 20050725; PT 1485352 E 20051031; RU 2004129769 A 20050710; RU 2322438 C2 20080420; UA 78987 C2 20070510; US 2005288351 A1 20051229; ZA 200406245 B 20050613

DOCDB simple family (application)  
**EP 0301986 W 20030227**; AT 03743342 T 20030227; AU 2003215603 A 20030227; BR 0307922 A 20030227; CA 2477124 A 20030227; CN 03805438 A 20030227; DE 10210190 A 20020307; DE 50300710 T 20030227; EP 03743342 A 20030227; EP 04029311 A 20030227; ES 03743342 T 20030227; HK 06100281 A 20060106; JP 2003572956 A 20030227; KR 20047012680 A 20030227; MX PA04008669 A 20030227; NO 20044239 A 20041006; PL 37243103 A 20030227; PT 03743342 T 20030227; RU 2004129769 A 20030227; UA 20041008091 A 20030227; US 93613404 A 20040907; ZA 200406245 A 20040805